Chapter 9

MINOR CONCRETE PATCHING AND REPAIR

The purpose of this work activity is to fix those areas on the deck which if left unattended could cause deterioration to other components such as around joints and deck drains. This is not intended for patching areas in the general surface of the deck unless there is evidence that one small area of the deck is unique from the rest of the deck and that patching of this area will prevent deterioration of another component.

Isolated areas of substructure deterioration and minor spalls in concrete railing or beams may also be patched as part of CSM work, using "Patching Concrete, LM" as described below.

Measure the surface area to be patched and enter this quantity on the CSM cost estimate sheet. Add a similar quantity for hand chipping and patch forming, if necessary.

See the following Special Provisions:

A. CONCRETE BRIDGE DECK SURFACE REPAIR

Date Approved: 12-18-01

Usage Statement: This special provision is applicable only for deck patching, when the maximum surface area included within the limits of an individual repair does not exceed 5 square feet. The maximum depth of repair shall not exceed 4 inches. This is a fast set mortar, and the cure time required before opening to traffic is much less than for the latex modified concrete specified below.

Pay Item: <u>Bridge Deck Surface Repair</u> [Square Feet]

B. STRUCTURE REPAIR WITH LATEX MODIFIED CONCRETE

Date Approved: 12-18-01

Usage Statement: This special provision is appropriate for patching concrete superstructure or substructure. It is used particularly for deck repairs larger than the 5 square foot area specified above. Consideration should be give to open to traffic constraints, in that latex modified concrete requires a total

of 96 hours to cure. This special provision and pay item is

also appropriate for pier or abutment repairs, repairs to concrete barrier railing or concrete beams, or other repairs that require patch forming.

Pay Item: Patching Concrete LM [Cubic Yard]

Descriptions for other pay items associated with this type of work can be found in the MDOT Standard Specifications for Construction. Some of those items are listed below:

Hand Chipping, Deep [Square Yard]
Hand Chipping, Shallow [Square Yard]
Hand Chipping, Other Than Deck [Cubic Feet]

Patch, Forming [Square Feet]